

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1229

Roll No.

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B. Tech.**(Semester-II) Even Semester Theory Examination, 2012-13****ENERGY, ENVIRONMENT AND ECOLOGY**

Time : 3 Hours]

[Total Marks : 80

Note : Attempt questions from each Section as per instructions.

SECTION-AAttempt *all* parts of this question. Each part carries 2 marks.

2×8=16

1.
 - (a) What are Ecological Pyramids ?
 - (b) What are the basic components of an Ecosystem ?
 - (c) Differentiate between renewable and non-renewable natural resources.
 - (d) Define Biodiversity.
 - (e) What is biogas production ?
 - (f) What are environmental problems of large Hydropower plants ?
 - (g) What is water pollution ?
 - (h) What is EIA process ?

SECTION-BAttempt any *three* parts of this question. Each part carries 8 marks. 8×3=24

2.
 - (a) Discuss the need for public awareness for the conservation and protection of the environment.
 - (b) Discuss the adverse impacts of urbanization and industrialization and suggest suitable remedial measures.
 - (c) Give a brief account of environmental effects of modern agriculture.

- (d) How and why we can say that the hydrogen as an alternative future sources of energy ?
- (e) Write a short note on various issues related to enforcement of environmental legislation ?

SECTION-C

Attempt *all* questions of this Section. Each question carries 8 marks. 8×5=40

3. Explain different types of Ecological Pyramids giving suitable examples.

Or

Give an account of the structure and functions of balanced ecosystem.

4. Discuss in detail the major environment impacts of mineral extraction.

Or

Why Biodiversity is important ? Discuss by supporting application.

5. Explain environmental impacts of fossil fuels.

Or

Explain the anaerobic digestion process. Also explain floating gas holder types of plants.

6. What do you understand by water pollution ? Suggest various remedial measures to minimize water pollution.

Or

Explain waste water treatment plant with the help of diagram.

7. Discuss the strategy and policy adopted by Govt. of India for the development of women education.

Or

Briefly discuss the salient features of Environmental (protection) Act, 1986.